

10 Nov'd PCT/PTG 06 DEC 2004

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

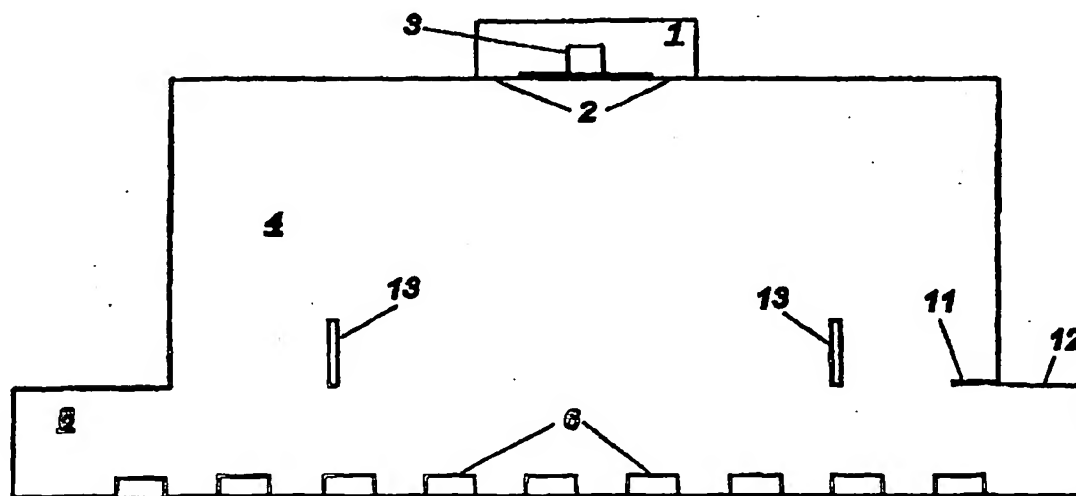
(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
18 December 2003 (18.12.2003)

PCT

(10) International Publication Number
WO 03/105534 A1

- (51) International Patent Classification⁷: H05B 6/78 (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (21) International Application Number: PCT/SE03/00957
- (22) International Filing Date: 10 June 2003 (10.06.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
0201755-6 7 June 2002 (07.06.2002) SE
- (71) Applicant (*for all designated States except US*): ExH LLC [US/US]; 3017 Woodlark Lane, Eagan, MN (US).
- (72) Inventor; and
(75) Inventor/Applicant (*for US only*): RISMAN, Per, O. [SE/SE]; Sandsjön 800, S-438 92 Härryda (SE).
- (74) Agent: AWAPATENT AB; Box 45086, S-104 30 Stockholm (SE).
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: IMPROVEMENTS OF HYBRID MODE RECTANGULAR HEATING APPLICATORS



(57) Abstract: A rectangular microwave applicator operating at a predetermined frequency and comprising a microwave enclosure forming a cavity having first and second transverse dimensions and a longitudinal dimension n in the direction of propagation of microwave energy, wherein said dimensions are such that a main power-transferring Teym_1n mode with a long vertical wavelength is enhanced, and a significant amplitude of a complementary Teym_2n mode is created, wherein m_1 , m_2 and n are positive odd integers and m_1 and m_2 are both less or equal to m_1-2 .

WO 03/105534 A1